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• Popovich, Steven R.
Stoughton, Wisconsin 53589 (US)

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(74) Representative: Burke, Steven David et al
R.G.C. Jenkins & Co.

(71) Applicant: DIGISONIX, Inc.
Middleton, Wisconsin 53562-2543 (US)

26 Caxton Street
London SW1H 0RJ (GB)

(72) Inventors:

- Allie, Mark C.
Oregon, Wisconsin 53575 (US)

(54) Active adaptive control system with spectral leak

(57) An active adaptive control system introduces a control signal from an output transducer (14) to combine with the system input signal (6) and yield a system output signal (8). An adaptive filter model (40) has an output (46) supplying a correction signal to the output transducer to introduce the control signal. The model has a first error input (44, 232, 248) driven by an error signal from an error transducer (16) to drive the correction sig-

nal toward a value matching the system input signal to modify and/or cancel same. The model has a second error input (202, 224, 240, 268, 280) selectively driven by a spectral leak signal (212) to drive the correction signal away from such matching value by driving the correction signal towards zero, to selectively constrain performance of the model in response to a given condition of a given parameter.

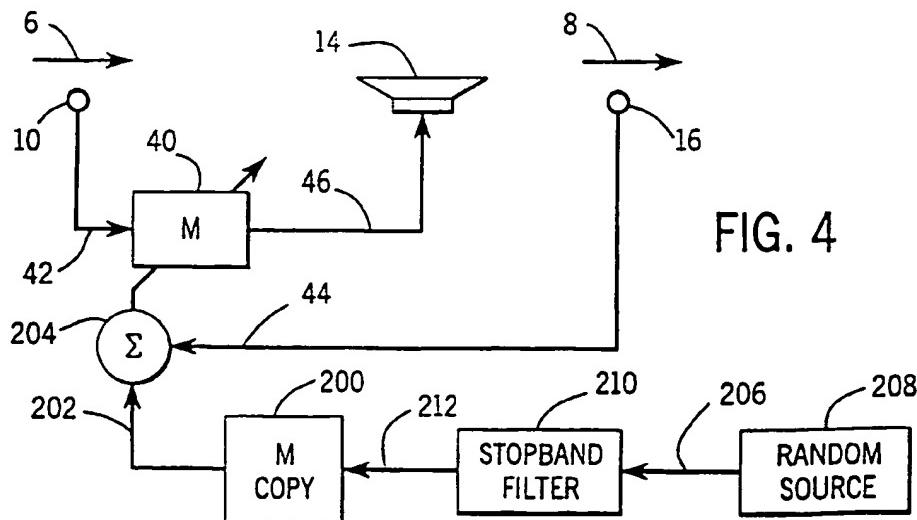


FIG. 4



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EUROPEAN SEARCH REPORT

Application Number
EP 94 30 9209

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO 93 15501 A (ACTIVE NOISE & VIBRATION TECH) 5 August 1993 * page 12, line 9 - line 22 * ---	1	H03H21/00 G10K11/178
D,A	US 4 677 676 A (ERIKSSON LARRY J) 30 June 1987 * column 16, line 9 - column 17, line 62; figures 19,20 * -----	1,10	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G10K H03H
Place of search			
THE HAGUE		Date of completion of the search	Examiner
THE HAGUE		28 February 1997	D/L PINTA BALLE.., L
CATEGORY OF CITED DOCUMENTS <ul style="list-style-type: none"> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document 			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			